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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/631,836	08/01/2003	Joon Tae Kim	0465-1044P	9361	
2292	7590 05/02/2006		EXAMINER		
	EWART KOLASCH &	HSIA, SHERRIE Y			
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
			2622	· · · - · · · · · · · · · · · · · · · ·	
			DATE MAILED: 05/02/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applica	plication No. Applicant(s)					
		10/631,	836	KIM, JOON TAE				
		Examin	er	Art Unit				
		Sherrie	Hsia	2622				
Period fo	The MAILING DATE of this communic or Reply	ation appears on t	he cover sheet v	with the correspondence ac	idress			
WHI(- Exte after - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MA INSIGHT OF THE MAINS OF	ILING DATE OF 7 37 CFR 1.136(a). In no dication. tory period will apply and II, by statute, cause the a	THIS COMMUN event, however, may a will expire SIX (6) MO pplication to become A	ICATION. I reply be timely filed INTHS from the mailing date of this c				
Status								
1)	Responsive to communication(s) filed	on .						
2a)□	This action is FINAL . 2b) This action is non-final.							
3)🖂	,—							
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims	·						
4)⊠	□ Claim(s) 1-29 is/are pending in the application.							
,—	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🖂	Claim(s) <u>1-26,28 and 29</u> is/are allowed.							
6)□	Claim(s) is/are rejected.							
7)⊠	Claim(s) 27 is/are objected to.							
8)□	Claim(s) are subject to restriction	on and/or election	requirement.					
Applicat	on Papers							
9)[The specification is objected to by the	Examiner.						
10)⊠ The drawing(s) filed on <u>01 August 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
	Applicant may not request that any objection	on to the drawing(s)	be held in abeya	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. § 119							
	12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
	1.⊠ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	` *		_					
1) Motice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
3) 🔲 Infori	e of Dransperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTC-1449 or PT r No(s)/Mail Date		_	nformal Patent Application (PTO-152)				
	· ·							

Application/Control Number: 10/631,836 Page 2

Art Unit: 2622

DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

Specification

a. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

b. Claim 27 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 27 has just repeated the subject matter "noise removing unit for estimating ... contained in the time domain signal" as claimed in claim 22, therefore, it is not further limiting the subject matter of the previous claim.

Prosecution on the merits is closed in accordance with the practice under *Ex parte*Quayle, 1935 C.D. 11, 453 O.G. 213.

Application/Control Number: 10/631,836 Page 3

Art Unit: 2622

A shortened statutory period for reply to this action is set to expire TWO MONTHS

from the mailing date of this letter.

Allowable Subject Matter

2. The following is a statement of reasons for the indication of allowable subject matter: the

prior art fails to show or fairly suggest a channel equalizer for restoring an original signal from a

digital TV receiving signal having passed through a channel having the combinations as claimed,

including a channel estimation unit for estimating a finite impulse response estimation value of a

channel by estimating an impulse response of a transmission channel from a received signal

having passed through the channel, and a channel distortion compensation unit for compensating

for the channel distortion of the received signal by using the time impulse response estimated in

a frequency domain after converting the received signal and the estimated impulse response into

the frequency domain, respectively, and for converting the received signal into a time domain

again, as recited in the claims.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sherrie Hsia whose telephone number is (571) 272-7347.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Ometz can be reached on (571) 272-7593.

Art Unit: 2622

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Or faxed to:

(571) 273-8300

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office whose telephone number is (703) 308-HELP.

Sherrie Hsia Primary Examiner Art Unit 2622

SH April 28, 2006